	Applicatio	n No.	Applicant(s)		
	10/822,506	;	SELL, JOHN V.		
Notice of Allowability	Examiner		Art Unit		
	Dalip K. Si	ngh	2671		
The MAILING DATE of this communic All claims being allowable, PROSECUTION ON THE herewith (or previously mailed), a Notice of Allowance NOTICE OF ALLOWABILITY IS NOT A GRANT OF of the Office or upon petition by the applicant. See 37	MERITS IS (OR REMAII (PTOL-85) or other app PATENT RIGHTS. This	NS) CLOSED in this appropriate communication application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. \boxtimes This communication is responsive to <u>9/22/05</u> .					
2. X The allowed claim(s) is/are 1-5, 7-13, 15-23, 25	5 and 26.				
Acknowledgment is made of a claim for foreig a) □ All b) □ Some* c) □ None of t 1. □ Certified copies of the priority docu	he: ments have been receiv	red.			
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILI noted below. Failure to timely comply will result in A THIS THREE-MONTH PERIOD IS NOT EXTENDAL	BANDONMENT of this	unication to file a reply of application.	complying with the red	quirements	
4. A SUBSTITUTE OATH OR DECLARATION mu INFORMAL PATENT APPLICATION (PTO-152	ust be submitted. Note the submitted is submitted. Note the submitted is submitted in the submitted is submitted.	e attached EXAMINER' why the oath or declara	S AMENDMENT or N tion is deficient.	OTICE OF	
5. CORRECTED DRAWINGS (as "replacement s	heets") must be submitte	ed.			
(a) including changes required by the Notice o			948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail I			•		
(b) ☐ including changes required by the attached Paper No./Mail Date	l Examiner's Amendmer	it / Comment or in the O	ffice action of		
Identifying indicia such as the application number (s each sheet. Replacement sheet(s) should be labeled	ee 37 CFR 1.84(c)) should as such in the header ac	l be written on the drawin cording to 37 CFR 1.121(c	igs in the front (not the i).	back) of	
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
1. Notice of References Cited (PTO-892)		☐ Notice of Informal Pa	• • • • • • • • • • • • • • • • • • • •)-152)	
2. Notice of Draftperson's Patent Drawing Review ((PTO-948) 6.	☐ Interview Summary (Paper No./Mail Date			
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date		7. ☐ Examiner's Amendment/Comment			
 Examiner's Comment Regarding Requirement for of Biological Material 	or Deposit 8.		nt of Reasons for Allo	wance	
or biological Material	9.	☐ Other			

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DETAILED ACTION

Response to Amendment

1. This Office Action is in response to applicant's amendment dated September 22, 2005 in response to PTO Office Action dated July 15, 2005. The amendments to claim(s) 1, 4, 11, 15, 19, 22 and 24; the deletion of claim(s) 6, 14 and 24 have been noted and entered in the record, and applicant's remarks have been carefully considered resulting in the action as set forth herein below.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rory D. Rankin (Reg. No. 47,8884), attorney of record, on November 10, 2005.

The application has been amended as follows:

In the claims:

In claim 18, line 1, delete "14"; and insert-12--.

- 3. Claims 1-5, 7-13, 15-23, 25 and 26 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: Prior art does not disclose or render obvious wherein a CPU and graphics unit comprising a graphics unit cache sharing a cache with the graphics unit; wherein the graphics unit is configured to partition images into a plurality of subset areas; tracking the number of times data corresponding to each of the subset areas is considered during the rendering of a first image; wherein the graphics unit including a plurality of entries, each entry corresponding to one of the subset areas and including an indicator indicating whether the corresponding subset area is

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cacheable in the shared cache; wherein during the rendering of a second image, the graphics unit is further configured to store data evicted from the graphics unit cache in the shared cache only if an indicator in an entry which corresponds to the data evicted from the graphics unit cache indicates the data evicted from the graphics unit cache is cacheable in the shared cache, said indicator being set prior to initiating the rendering of a second image as per independent claims 1, 11, 19,. In particular, US 6,801,208 B2 to Keshava discloses a general sharing mechanism which is not specific to any data in particular, and does not pertain specific to a particular subset area of a partitioned image and does not maintain separate entries for each of the subset areas of a partitioned image and an indicator in the entry indicating whether data for that particular subset are is cacheable in the shared cache when being evicted.

Prior art, made of record but not relied upon, US 6,842,180 B1 to Maiyuran et al. 5. discloses sharing of graphics resources to enhance cpu performance wherein graphics memory is to be used by graphics engine, CPU or partitioned between the graphics engine and CPU depending upon workloads without making use of an indicator that indicates data evicted is cacheable in the shared cache; US 6,801,2007 B1 to Tischler et al. (multimedia processor employing a shared CPU-Graphics Cache); US 6891543 B2 to Wyatt (sharing memory between a host processor and graphics processor).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Dalip K. Singh** whose telephone number is **(571) 272-7792**. The examiner can normally be reached on Mon-Friday (10:30AM-6: 30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Ulka Chauhan**, can be reached at **(571) 272-7782**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Please note that the new Central Official FAX number for application specific communications with the USPTO is 571-273-8300 (effective July 15, 2005).

Dalip K. Singh Examiner, Art Unit 2671

dks November 14, 2005

> ULKA J. CHAUHAN PRIMARY EXAMINER